

tesa AG 630-HCL
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AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended)

1. Hot-melt pressure-sensitive adhesive based on at least one non-thermoplastic elastomer, the adhesive comprising
100 parts by mass of the non-thermoplastic elastomer,
1 to 200 parts by mass of at least tackifying resin, and
~~at least one polyfunctional isocyanate which is free from a blocking agent,~~
a mixture of blocking-agent-free isocyanates which comprises of a mixture of different isocyanates which are distinguished by different reactivities,
the adhesive comprising from 8 mmol to 5 mol of reactive isocyanate groups of the isocyanate per kilogram of the non-thermoplastic elastomer.

Claim 2 (previously amended)

2. Hot-melt pressure-sensitive adhesive according to claim 1, wherein the non-thermoplastic elastomer is selected from the group consisting of natural rubbers, random-copolymerized styrene-butadiene rubbers, butadiene rubbers, synthetic polyisoprenes, butyl rubbers, halogenated butyl rubbers, ethylene-vinyl acetate copolymers and polyurethanes.

Claim 3 (previously amended)

3. Hot-melt pressure-sensitive adhesive according to claim 1, wherein the adhesive further comprises a polymer blend of at least one non-thermoplastic elastomer and at least one thermoplastic elastomer, wherein said thermoplastic elastomer is selected from the group consisting of polypropylenes, polyethylenes, metallocene-catalysed polyolefins, polyesters, polystyrenes and synthetic block copolymer rubbers.

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Claim 4 (cancelled)

Claim 5 (previously amended)

5. Hot-melt pressure-sensitive adhesive according to Claim 1, wherein the crosslinking of the blocking-agent-free isocyanate is accelerated by means of a catalyst.

Claim 6 (previously amended)

6. Hot-melt pressure-sensitive adhesive according to claim 1, wherein fillers are added to the adhesive which are selected from the group consisting of metal oxides, chalks, precipitated silicas, pyrogenic silicas, solid glass beads, hollow glass beads, microballoons, carbon blacks, glass fibres and polymer fibres.

Claim 7 (previously amended)

7. Hot-melt pressure-sensitive adhesive according to claim 1 wherein plasticizers are added to the adhesive which are selected from the group consisting of paraffinic oils, naphthenic oils, oligomeric nitrile rubbers, liquid isoprene rubbers, oligobutadienes, soft resins, wool fats, rapeseed oils and castor oils.

Claim 8 (previously amended)

8. Self-adhesive article obtained according to Claim 1, wherein the hot-melt pressure-sensitive adhesive is applied to at least one side of a web-form material.

Claim 9 (previously amended)

9. Self-adhesive article according to Claim 1, wherein the thickness of the hot-melt pressure-sensitive adhesive on the web-form material is between 5 μm and 3000 μm .

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Claim 10 (previously amended)

10. Self-adhesive article according to Claim 1, wherein the hot-melt pressure-sensitive adhesive is applied in a thickness of from 20 μm to 3000 μm , to a release paper having an anti-adhesive coating on both sides.

Claim 11 (cancelled)

Claim 12 (previously added)

12. The self-adhesive article of claim 9, wherein the thickness of the hot-melt pressure-sensitive adhesive on the web-form material is between 15 μm and 150 μm .

Claim 13 (previously added)

13. The self-adhesive article of claim 10, wherein the hot-melt pressure-sensitive adhesive is applied in a thickness of from 40 μm and 1500 μm to a release paper having an anti-adhesive coating on both sides.